PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-255559
(43)Date of publication of application : 11.09.2002

(51)Int.Cl. C01G 49/00
C04B 35/38
H01F 1/34

(21)Application number : 2001-056596
(22)Date of filing : 01.03.2001

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(54) MN-ZN-NI-BASED FERRITE

(57)Abstract:
PROBLEM TO BE SOLVED: To obtain a soft ferrite having excellent magnetic stability, a high saturation flux density Bs at 100°C or higher, especially in the vicinity of 150°C, and hard to magnetically degrade at such high temperature providing some sacrifice in reduction of loss.
SOLUTION: This Mn-Zn-Ni-based ferrite comprises, ion mol, 55.0 to 59.0% of iron oxide in terms of Fe2O3, 0 to 15.0% if zinc oxide in terms of ZnO, 2.0 to 10.0% of nickel oxide in terms of NiO, as main components, and the rest Mn-Zn-Ni-based ferrite containing manganese oxide(MnO), which is constituted in a manner that δ value (amount of cation defect) in the following compositional formula (1) of the ferrite is ≤0.0025: (Zna2+, Nib2+, Mnc2+, Mnd3+, Fee2+, Fef3+)3O4+δ (1), wherein relations of a+b+c+d+e+f=3 and δ=a+b+c+(3/2)d+e+(3/2)f-4 are satisfied.

LEGAL STATUS

[Date of request for examination] 16.05.2002
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]